#12

SEQUENCE LISTING

<110> University Court of the University of Glasgow

<120> Targeting peptides

<130> PC/MC/JM/P11910US

<140> US 09/990,832

<141> 2001-11-16

<160> 127

<170> PatentIn version 3.1

<210> 1

<211> 7

<212> PRT

<213> Artificial

<400> 1

Ala Ala Ser Ala Arg Leu Pro
1 5

<210> 2

<211> 7

<212> PRT

<213> Artificial

<400> 2

Val Tyr Phe Pro Ala Pro Asn
1 5

<210> 3

<211> 7

<212> PRT

<213> Artificial

<400> 3

Phe Ser Met Ser Thr Pro Ser
1 5

<210> 4

<211> 7

<212> PRT

<213> Artificial

<400> 4

Ile Val Ala Gln Pro Arg Leu
1 5

<210> 5

<211> 7

<212> PRT

<213> Artificial

<400> 5

Phe Pro Gln Thr Tyr Thr Thr
1 5

<210> 6

<211> 7

<212> PRT

<213> Artificial

<400> 6

Asn Ile Ala Ala Phe Ser Leu
1 5

<210> 7

<211> 7

<212> PRT

<213> Artificial

<400> 7

Gln Pro Arg Leu Leu His His
1 5

<210> 8

<211> 7

<212> PRT

<213> Artificial

<400> 8

Asn Ile Ile Pro Ala Pro Thr
1 5

<210> 9

<211> 7

<212> PRT

<213> Artificial

<400> 9

Ser Pro Thr Tyr Pro Arg Arg
1 5

<210> 10

<211> 7

<212> PRT

<213> Artificial

<400> 10

Thr Arg Ser Gln Pro Pro Leu
1 5

<210> 11

<211> 7

<212> PRT

<213> Artificial

<400> 11

Asn Thr Gly Pro Asn Arg Val
1 5

<210> 12

<211> 7

<212> PRT

<213> Artificial

<400> 12

Pro Pro Pro Asp Trp Thr Phe
1 5

<210> 13

<211> 7

<212> PRT

<213> Artificial

<400> 13

Ser His Phe Ser His Leu Arg
1 5

<210> 14

<211> 7

<212> PRT

<213> Artificial

<400> 14

Ala Phe Asn Tyr Pro Pro His
1 5

<210> 15

<211> 7

<212> PRT

<213> Artificial

<400> 15

Asp Phe Leu Gln Val Ser Pro
1 5

<210> 16

<211> 7

<212> PRT

<213> Artificial

<400> 16

Ser Pro Asp His Leu Phe Cys
1 5

<210> 17

<211> 7

<212> PRT

<213> Artificial

<400> 17

Leu Glu His Pro Pro Thr Thr
1 5

<210> 18

<211> 7

<212> PRT

<213> Artificial

<400> 18

Thr Tyr Pro Ser Ser Glu Trp
1 5

<210> 19

<211> 7

<212> PRT

<213> Artificial

<400> 19

Ile Pro Met His Leu His Asn
1 5

<210> 20

<211> 7

<212> PRT

<213> Artificial

<400> 20

Thr Ser Glu Ser Pro Thr Val
1 5

<210> 21

<211> 7

<212> PRT

<213> Artificial

<400> 21

Tyr Ser Leu Ser Arg Ser Leu
1 5

<210> 22

<211> 7

<212> PRT

<213> Artificial

<400> 22

Asn His Leu Ser Ala Leu Tyr
1 5

<210> 23

<211> 7

<212> PRT

<213> Artificial

<400> 23

Thr Tyr Ser Leu Lys Ser Ala
1 5

<210> 24

<211> 7

<212> PRT

<213> Artificial

<400> 24

Thr Ser Thr Met Pro Ser Arg
1 5

<210> 25

<211> 7

<212> PRT

<213> Artificial

<400> 25

Glu Thr Ile Lys Thr Asn Thr
1 5

<210> 26

<211> 7

<212> PRT

<213> Artificial

<400> 26

Ala Thr Gly Phe Ala Thr Pro
1 5

<210> 27

<211> 7

<212> PRT

<213> Artificial

<400> 27

Thr Asn Ser Gln Pro Ser Pro
1 5

<210> 28

<211> 7

<212> PRT

<213> Artificial

<400> 28

Thr Ser Phe Phe Met Pro Pro
1 5

<210> 29

<211> 7

<212> PRT

<213> Artificial

<400> 29

Thr Ala Ala Tyr Arg Phe Trp
1 5

<210> 30

<211> 7

<212> PRT

<213> Artificial

<400> 30

Leu Pro Pro Ser Leu Tyr Ser
1 5

<210> 31

<211> 7

<212> PRT

<213> Artificial

<400> 31

Ser Pro Ser Val Val Pro Phe
1 5

<210> 32

<211> 7

<212> PRT

<213> Artificial

<400> 32

His Ser Leu Thr Phe Ser Ile
1 5

<210> 33

<211> 7

<212> PRT

<213> Artificial

<400> 33

Trp Asn Ser Thr Thr Gln Ala
1 5

<210> 34

<211> 7

<212> PRT

<213> Artificial

<400> 34

His Phe Thr His Pro Thr His
1 5

<210> 35

<211> 7

<212> PRT

<213> Artificial

<400> 35

Ala Gly Ala Thr Ala Met Ser
1 5

<210> 36

<211> 7

<212> PRT

<213> Artificial

<400> 36

Ser Thr Tyr Pro Ile Ile Arg

1 5

<210> 37

<211> 7

<212> PRT

<213> Artificial

<400> 37

Ser Trp Asn His Ala Arg Val
1 5

<210> 38

<211> 7

<212> PRT

<213> Artificial

<400> 38

Asn His Trp His Gly Gly Leu
1 5

<210> 39

<211> 7

<212> PRT

<213> Artificial

<400> 39

Gly Ile Leu Ser Pro Ser His
1 5

<210> 40

<211> 7

<212> PRT

<213> Artificial

<400> 40

Glu Ala Val Pro Thr Tyr Ser
1 5

<210> 41

<211> 7

<212> PRT

<213> Artificial

<400> 41

Ile Asn Ser Asn Ala Pro Gly
1 5

<210> 42

<211> 7

<212> PRT

<213> Artificial

<400> 42

Tyr Ser Thr His Ser Thr Arg
1 5

<210> 43

<211> 7

<212> PRT

<213> Artificial

<400> 43

Ser Asp Leu Ala Thr Val Arg
1 5

<210> 44

<211> 7

<212> PRT

<213> Artificial

<400> 44

Ile Asn Ser Val Ser Pro His
1 5

<210> 45

<211> 7

<212> PRT

<213> Artificial

<400> 45

Met Ser Ser Pro Gly Pro Ala
1 5

<210> 46

<211> 7

<212> PRT

<213> Artificial

<400> 46

Leu Pro Thr Lys Thr Leu Phe
1 5

<210> 47

<211> 7

<212> PRT

<213> Artificial

<400> 47

Ala Ala Trp Pro Thr Ser Ser
1 5

<210> 48

<211> 7

<212> PRT

<213> Artificial

<400> 48

Leu Thr Ala Glu Leu Thr Pro
1 5

<210> 49

<211> 7

<212> PRT

<213> Artificial

<400> 49

Lys Ile Asp Gly Thr Pro Arg
1 5

<210> 50

<211> 7

<212> PRT

<213> Artificial

<400> 50

Val Glu Pro Ala Arg Ala Ser
1 5

<210> 51

<211> 7

<212> PRT

<213> Artificial

<400> 51

Ser Ile Gly Tyr Pro Leu Pro
1 5

<210> 52

<211> 7

<212> PRT

<213> Artificial

<400> 52

Trp Thr Ser Asp Glu Leu His
1 5

<210> 53

<211> 7

<212> PRT

<213> Artificial

<400> 53

Thr Leu Gly Leu His Met Ser
1 5

<210> 54

<211> 7

<212> PRT

<213> Artificial

<400> 54

Leu Ser Asn Phe His Ser Ser
1 5

<210> 55

<211> 7

<212> PRT

<213> Artificial

<400> 55

Ser Leu Pro Arg Asn Ser Asp
1 5

<210> 56

<211> 7

<212> PRT

<213> Artificial

<400> 56

Gly Tyr Gln Gln Val Phe Gln
1 5

<210> 57

<211> 7

<212> PRT

<213> Artificial

<400> 57

Met Ser Pro Pro Gly Pro Ala
1 5

<210> 58

<211> 7

<212> PRT

<213> Artificial

<400> 58

Leu Cys Met Thr Thr Leu Val
1 5

<210> 59

<211> 7

<212> PRT

<213> Artificial

<400> 59

Ser Glu Val Ala Val Gln Gly
1 5

<210> 60

<211> 12

<212> PRT

<213> Artificial

<400> 60

Met Ala Met Pro Gln Pro Ala Asp His Asn Asn Ser
1 5 10

<210> 61

<211> 12

<212> PRT

<213> Artificial

<400> 61

Val Ser Gly Met Ser Val Pro Val Gln Leu Ala Arg
1 5 10

<210> 62

<211> 12

<212> PRT

<213> Artificial

<400> 62

Met Thr Gln Thr Pro Arg Thr Thr Pro Trp Pro Asp
1 5 10

<210> 63

<211> 12

<212> PRT

<213> Artificial

<400> 63

Met Ser Leu Thr Thr Pro Pro Ala Val Ala Arg Pro
1 5 10

<210> 64

<211> 12

<212> PRT

<213> Artificial

<400> 64

Met Ser Asn Asn Pro Ile Arg Pro Pro Thr Ser Gly
1 5 10

<210> 65

<211> 12

<212> PRT

<213> Artificial

<400> 65

Met Thr Gln Val Tyr Thr Pro Pro Pro Thr Ser Thr
1 5 10

<210> 66

<211> 12

<212> PRT

<213> Artificial

<400> 66

Met Thr Gly Ser Gln Gln Thr Leu His Pro Pro Pro
1 5 10

<210> 67

<211> 13

<212> PRT

<213> Artificial

<400> 67

Met Ala Thr Gln Pro Leu Ser Gly Ser Arg Leu Ser Gly
1 5 10

<210> 68

<211> 12

<212> PRT

<213> Artificial

<400> 68

Met Asn Met Thr Pro Pro Pro His Ser Pro Pro Lys
1 5 10

<210> 69

<211> 12

<212> PRT

<213> Artificial

<400> 69

Met Thr Pro Phe Pro Thr Ser Asn Glu Ala Asn Leu
1 5 10

<210> 70

<211> 12

<212> PRT

<213> Artificial

<400> 70

Ala Met Ser Met Thr Thr Met Pro His Ser Pro Asn
1 5 10

<210> 71

<211> 12

<212> PRT

<213> Artificial

<400> 71

Met Ser Asp Leu Leu Ile Glu Tyr Pro Pro Tyr Ile
1 5 10

<210> 72

<211> 12

<212> PRT

<213> Artificial

<400> 72

Met Thr Leu Pro His Glu Leu Arg Asp Gly Ala Leu
1 5 10

<210> 73

<211> 12

<212> PRT

<213> Artificial

<400> 73

Ala Ala Val Pro Pro Pro Tyr Val Met Ser Arg Pro
1 5 10

<210> 74

<211> 12

<212> PRT

<213> Artificial

<400> 74

Met Ser Gln Thr Pro Tyr Ala Arg Pro Gln Tyr Val
1 5 10

<210> 75

<211> 12

<212> PRT

<213> Artificial

<400> 75

Met Thr Ser Asn Pro His Leu Asn Pro Gly Pro Arg
1 5 10

<210> 76

<211> 12

<212> PRT

<213> Artificial

<400> 76

Met Gly His Asn Ile Asn Ile Pro Arg Thr Pro Leu
1 5 10

<210> 77

<211> 12

<212> PRT

<213> Artificial

<400> 77

Leu Ser Thr Pro Leu Pro Tyr Asp Met Arg Arg Ser
1 5 10

<210> 78

<211> 12

<212> PRT

<213> Artificial

<400> 78

Met Thr Arg Ile Gln Asp Ser Pro Tyr Asp Leu Arg
1 5 10

<210> 79

<211> 12

<212> PRT

<213> Artificial

<400> 79

Met Ser Thr Pro Pro Ile Arg Glu Gln Ala Ala His
1 5 10

<210> 80

<211> 12

<212> PRT

<213> Artificial

<400> 80

Met Thr Asn Leu Pro Thr Val Thr Gln Phe Pro Pro
1 5 10

<210> 81

<211> 12

<212> PRT

<213> Artificial

<400> 81

Met Thr Pro Ile Ala Thr Ser Ile Pro Pro Gln Met
1 5 10

<210> 82

<211> 12

<212> PRT

<213> Artificial

<400> 82

Met Thr Pro Thr Thr Pro Ile Pro Ser Leu Pro Gln
1 5 10

<210> 83

<211> 12

<212> PRT

<213> Artificial

<400> 83

Met Thr Ser Pro His Pro Gln Thr Pro Asn Leu Thr
1 5 10

<210> 84

<211> 12

<212> PRT

<213> Artificial

<400> 84

Met Thr Gln Gln Pro Pro Leu Pro His Pro Ala Lys
1 5 10

<210> 85

<211> 12

<212> PRT

<213> Artificial

<400> 85

Leu Ala Lys Pro Leu Pro Thr Thr Ser Asn Thr Gly
1 5 10

<210> 86

<211> 13

<212> PRT

<213> Artificial

<400> 86

Leu Ser Lys Pro Ile Pro His Ile Pro Ser Ser Ile Gly
1 5 10

<210> 87

<211> 12

<212> PRT

<213> Artificial

<400> 87

Cys Ile Cys Arg Gly Val Gly Cys Cys Leu Leu Leu
1 5 10

<210> 88

<211> 12

<212> PRT

<213> Artificial

<400> 88

Leu Gln Pro Pro Ser Met Ile Thr His Pro Ser Thr
1 5 10

<210> 89

<211> 12

<212> PRT

<213> Artificial

<400> 89

Leu Thr Pro Pro Asn Gln Val Leu Asn Pro Leu Tyr
1 5 10

<210> 90

<211> 12

<212> PRT

<213> Artificial

<400> 90

Ala Phe Pro Met Val Gly Gly Pro Asp His Phe Arg
1 5 10

<210> 91

<211> 12

<212> PRT

<213> Artificial

<400> 91

Met Leu Met Pro Gln Pro Ala His His Asn Asn Ser
1 5 10

<210> 92

<211> 12

<212> PRT

<213> Artificial

<400> 92

Ala Gln Ala Met Ala Asn Pro Leu Gly Ser His Ile
1 5 10

<210> 93

<211> 12

<212> PRT

<213> Artificial

<400> 93

Ser Ser Arg Ile Pro Gly Phe Pro Asp Pro Leu His
1 5 10

<210> 94

<211> 12

<212> PRT

<213> Artificial

<400> 94

Ser Met Arg Gly Leu Pro Glu Leu Asn Pro Arg Ile
1 5 10

<210> 95

<211> 12

<212> PRT

<213> Artificial

<400> 95

Met Ser Ser Pro Thr Val Ser Ser Ala Pro Gln Tyr
1 5 10

<210> 96

<211> 12

<212> PRT

<213> Artificial

<400> 96

Val Leu Ser Met Gln Thr Pro Pro Thr Pro Leu Leu
1 5 10

<210> 97

<211> 11

<212> PRT

<213> Artificial

<400> 97

Thr His Ala Met Ser His Leu Asp Lys Ala His
1 5 10

<210> 98

<211> 12

<212> PRT

<213> Artificial

<400> 98

Met Ala Val Gln Pro Pro Asn Thr Ser Thr Ser Asn
1 5 10

<210> 99

<211> 12

<212> PRT

<213> Artificial

<400> 99

Met Ala Ile Asn Asp Thr Tyr Pro Pro Pro Arg Pro
1 5 10

<210> 100

<211> 12

<212> PRT

<213> Artificial

<400> 100

Met Met Pro Pro Pro Thr Ser Leu Pro Ser Pro Ser
1 5 10

<210> 101

<211> 12

<212> PRT

<213> Artificial

<400> 101

Leu Ala Gln Asn Pro Ile Tyr Arg Ala His Pro His
1 5 10

<210> 102

<211> 12

<212> PRT

<213> Artificial

<400> 102

Met Gln Pro Arg Pro Gln Thr Leu Thr Pro Ala Ser
1 5 10

<210> 103

<211> 12

<212> PRT

<213> Artificial

<400> 103

Leu Thr Val Pro Val Pro Val Ser Phe Ala Val His

1 5 10

<210> 104

<211> 12

<212> PRT

<213> Artificial

<400> 104

Leu Thr Ser Pro Phe Ser Thr Pro Leu Asn Pro Arg
1 5 10

<210> 105

<211> 12

<212> PRT

<213> Artificial

<400> 105

Met Ala Gly Gln Pro Lys Asp Ser Ser Lys Thr Leu
1 5 10

<210> 106

<211> 12

<212> PRT

<213> Artificial

<400> 106

Ala Asn Thr Pro Pro His Thr Ile Leu Ser Thr Glu
1 5 10

<210> 107

<211> 12

<212> PRT

<213> Artificial

<400> 107

Met Gly Met Thr Val Pro Glu Asn Leu Ile Val Gln
1 5 10

<210> 108

<211> 12

<212> PRT

<213> Artificial

<400> 108

Met Thr Pro Ile Gln Ser Thr Gln Tyr Pro His Ser
1 5 10

<210> 109

<211> 21

<212> DNA

<213> Artificial

<400> 109
ggccgcagac gacgacgaca a 21

<210> 110

<211> 21

<212> DNA

<213> Artificial

<400> 110
ggccttgtcg tcgtcgtctg c 21

<210> 111

<211> 42

<212> DNA

<213> Artificial

<400> 111
catggccaag aagaagaaga agaagaaggg cggcggcagc tc 42

<210> 112

<211> 42

<212> DNA

<213> Artificial

<400> 112
catggagctg ccgccgccct tcttcttctt cttcttcttg gc 42

<210> 113

<211> 40

<212> DNA

<213> Artificial

<400> 113
atggcctcga ttgggtatcc tcttccgggc ggcggcagtc 40

<210> 114

<211> 42

<212> DNA

<213> Artificial

<400> 114
catggagctg ccgccgcccg gaagaggata cccaatcgag gc 42

<210> 115

<211> 26

<212> DNA

<213> Artificial

<400> 115
cgcgtcgatc ggttacccat tgccag 26

<210> 116

<211> 26

<212> DNA

<213> Artificial

<400> 116
cgcgctggca atgggtaacc gatcga 26

<210> 117

<211> 47

<212> DNA

<213> Artificial

<400> 117
ggtacacagg aaacaggagg ttccggaggt ggaggagaca caactcc 47

<210> 118

<211> 27

<212> DNA

<213> Artificial

<400> 118
ccggaagcat cggctacccc ctgcccg 27

<210> 119

<211> 27

<212> DNA

<213> Artificial

<400> 119
ccggcgggca gggggtagcc gatgctt 27

<210> 120

<211> 27

<212> DNA

<213> Artificial

<400> 120
ccggactgag caacttccac agctccg 27

<210> 121

<211> 27

<212> DNA

<213> Artificial

<400> 121
ccggcggagc tgtggaagtt gctcagt 27

<210> 122

<211> 35

<212> DNA

<213> Artificial

<400> 122
gtttcagttt tggccggcgg gggcagtttg gctcc 35

<210> 123

<211> 35

<212> DNA

<213> Artificial

<400> 123
ggagccaaac tgcccccgcc ggccaaaact gaaac 35

<210> 124

<211> 28

<212> DNA

<213> Artificial

<400> 124
gctccagagg ccaactgcag actaaatg 28

<210> 125

<211> 31

<212> DNA

<213> Artificial

<400> 125
catttagtct gcagttggcc tctggagctg g 31

<210> 126

<211> 13

<212> PRT

<213> Artificial

<400> 126

Gln Ala Gly Thr Ala Leu Arg Gly Asp Asn Pro Gln Gly
1 5 10

<210> 127

<211> 13

<212> PRT

<213> Artificial

<400> 127

Cys Gly Phe Glu Cys Val Arg Gln Cys Pro Glu Arg Cys
1 5 10